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DOCUMENT-IDENTIFIER: US 5888983 A
TITLE: Method and oligonucleobase compounds for curing diseases
caused by mutations

INVENTOR (1):
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Detailed Description Text (44):
Suitable substituents include the substituents taught by the Kmiec Application, C.sub.1 -6 alkane. Alternative substituents include the substituents taught by U.S. Pat. No. 5,334,711 (Sproat) and the substituents taught by patent publications EP 629 387 and EP 679657 (collectively, the Martin Applications), which are hereby incorporated by reference. As used herein a 2' fluoro, chloro or bromo derivative of a ribonucleotide or a ribonucleotide having a substituted 2'-O as described in the Martin Applications or Sproat is termed a "2'-Substituted Ribonucleotide." Particular preferred embodiments of 2'-Substituted Ribonucleotides are 2'-fluoro, 2'-methoxy, 2'-propyloxy, 2'-allyloxy, 2'-hydroxylethoxyloxy, 2'-methoxyethoxyloxy, 2'-fluoropropoxyloxy and 2'-trifluoropropoxyloxy substituted ribonucleotides. In a more preferred embodiments of 2'-Substituted Ribonucleotides are 2'-fluoro, 2'-methoxy, 2'-methoxyethoxyloxy, and 2'-allyloxy substituted nucleotides.

Detailed Description Text (45):
2'-Substituted Ribonucleosides are defined analogously. Particular preferred embodiments of 2'-Substituted Ribonucleosides are 2'-fluoro, 2'-methoxy, 2'-propyloxy, 2'-allyloxy, 2'-hydroxylethoxy, 2'-methoxyethoxy, 2'-fluoropropoxyloxy and 2'-trifluoropropoxyloxy substituted ribonucleotides. In a more preferred embodiments of 2'-Substituted Ribonucleosides are 2'-fluoro, 2'-methoxy, 2'-methoxyethoxy, and 2'-allyloxy substituted nucleotides.

CLAIMS:

4. The nucleic acid of claim 2, in which the 2'-substituents are independently selected from the group consisting of 2'-fluoro, 2'-methoxy, 2'-propyloxy, 2'-allyloxy, 2'-hydroxylethoxy, 2'-methoxyethoxy, 2'-fluoropropoxy and 2'-trifluoropropoxy.

5. The nucleic acid of claim 4, in which the 2'-substituents are independently selected from the group consisting of 2'-fluoro, 2'-methoxy, 2'-methoxyethoxy, and 2'-allyloxy.

12. The method of claim 9, wherein the 2'-substituents are independently selected from the group consisting of 2'-fluoro, 2'-methoxy, 2'-propyloxy, 2'-allyloxy, 2'-hydroxylethyloxy, 2'-methoxyethyloxy, 2'-fluoropropyloxy and 2'-trifluoropropyloxy.

13. The method of claim 9, wherein the 2'-substituents are independently selected from the group consisting of 2'-fluoro, 2'-methoxy, 2'-methoxyethyloxy, and 2'-allyloxy.